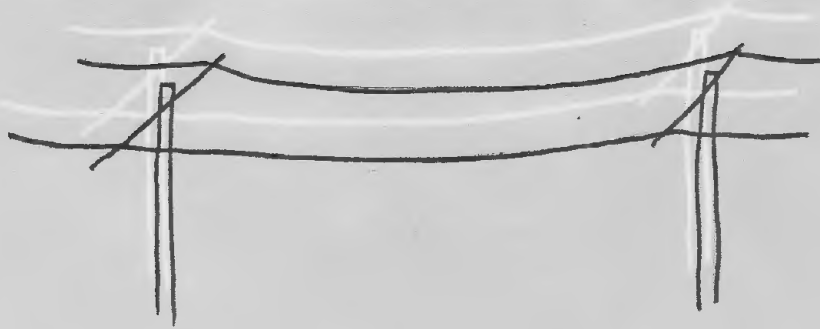


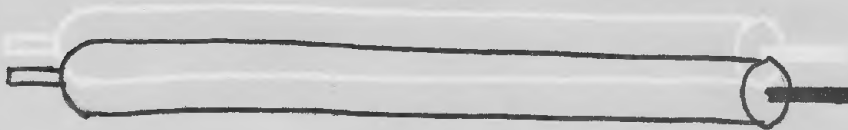
Radio Telecommunications and the IBM Personal Computer

• WHAT IS IT

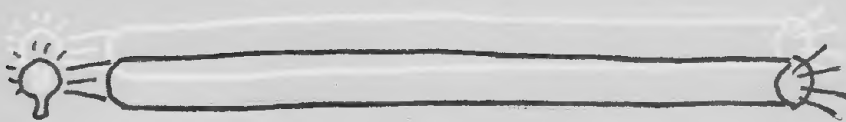
- What it is Radio Implementation
- An Amateur Radio implementation
 - Generalized system
 - Specialized system



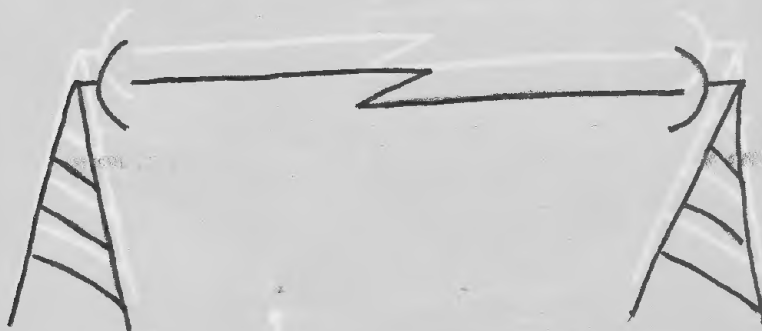
TELEPHONE
TELEPHONE
LINES



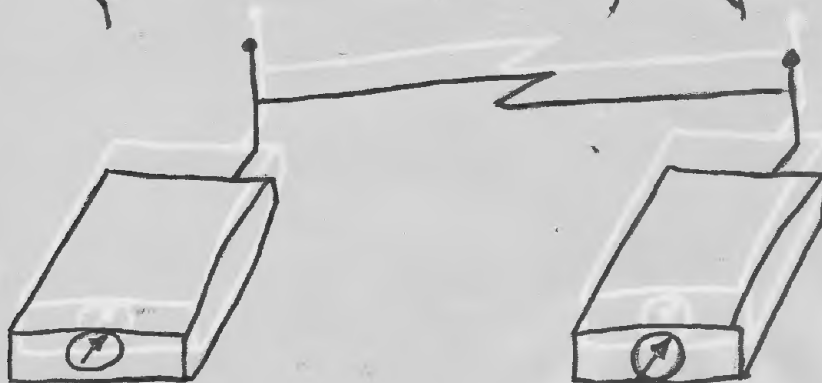
COAX OR
COAX OR
TWINAX
CABLE



FIBER OPTIC
FIBER OPTIC
CABLE



MICROWAVE
MICROWAVE
SATELLITE
SATELLITE
LINKS



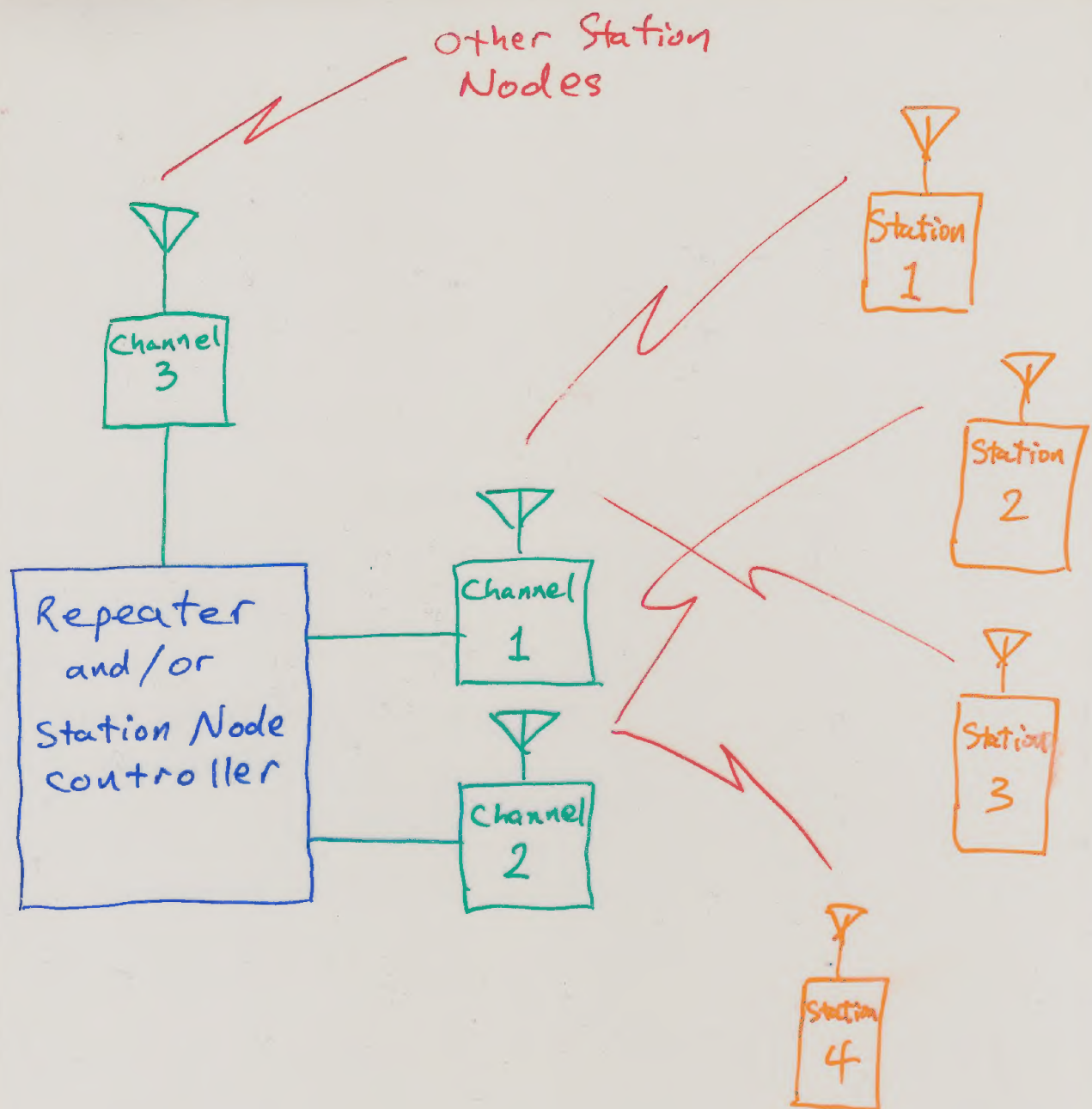
RADIO
RADIO

TRANSMISSION MEDIA
TRANSMISSION MEDIA

APPLICATIONS

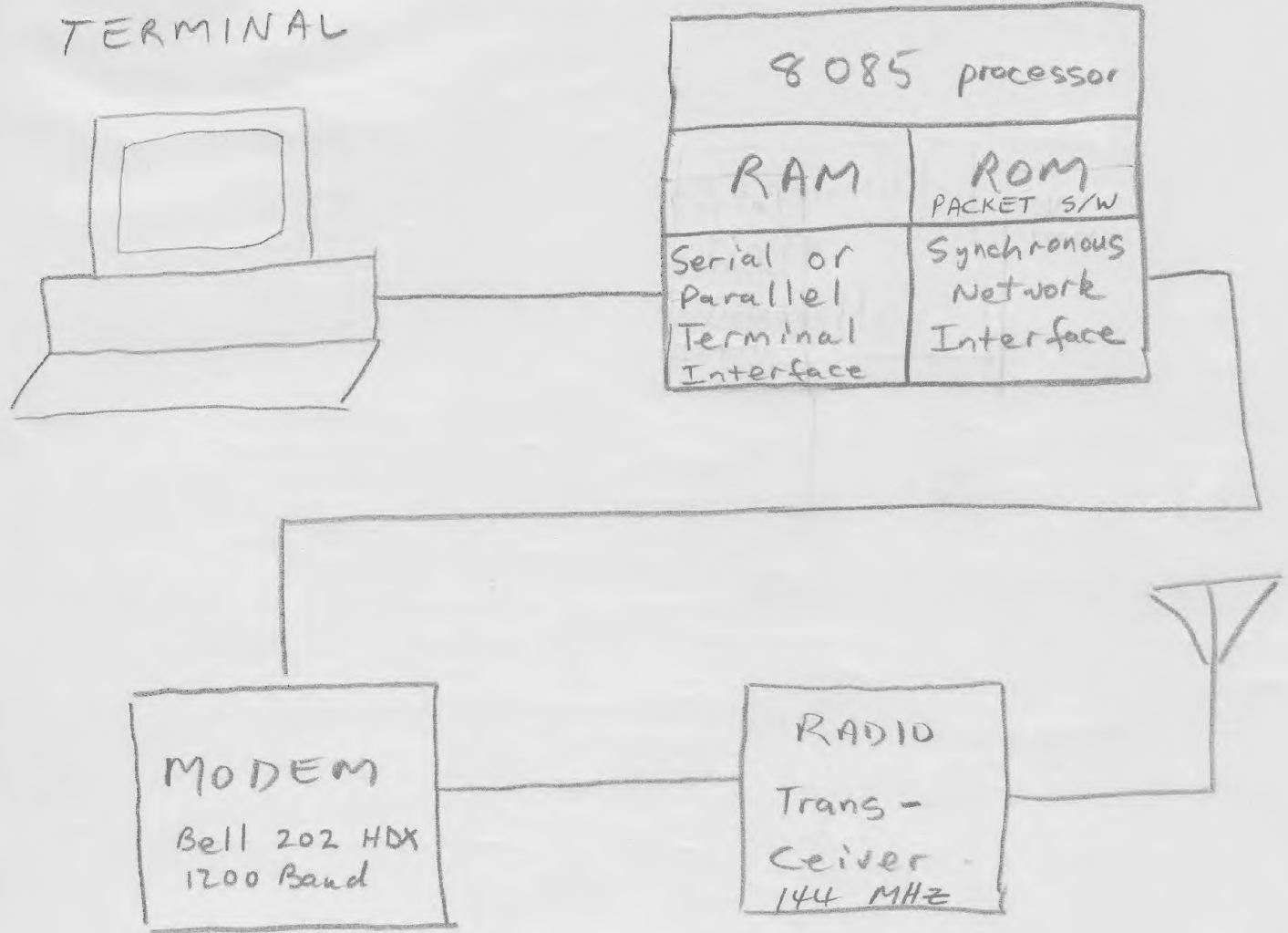
APPLICATIONS

- **Typed conversations**
- **Data file transfer**
- **Remote bulletin board system (RBBS)**
 - **Messages**
 - **Information**
 - **Programs**



Packet Radio Network

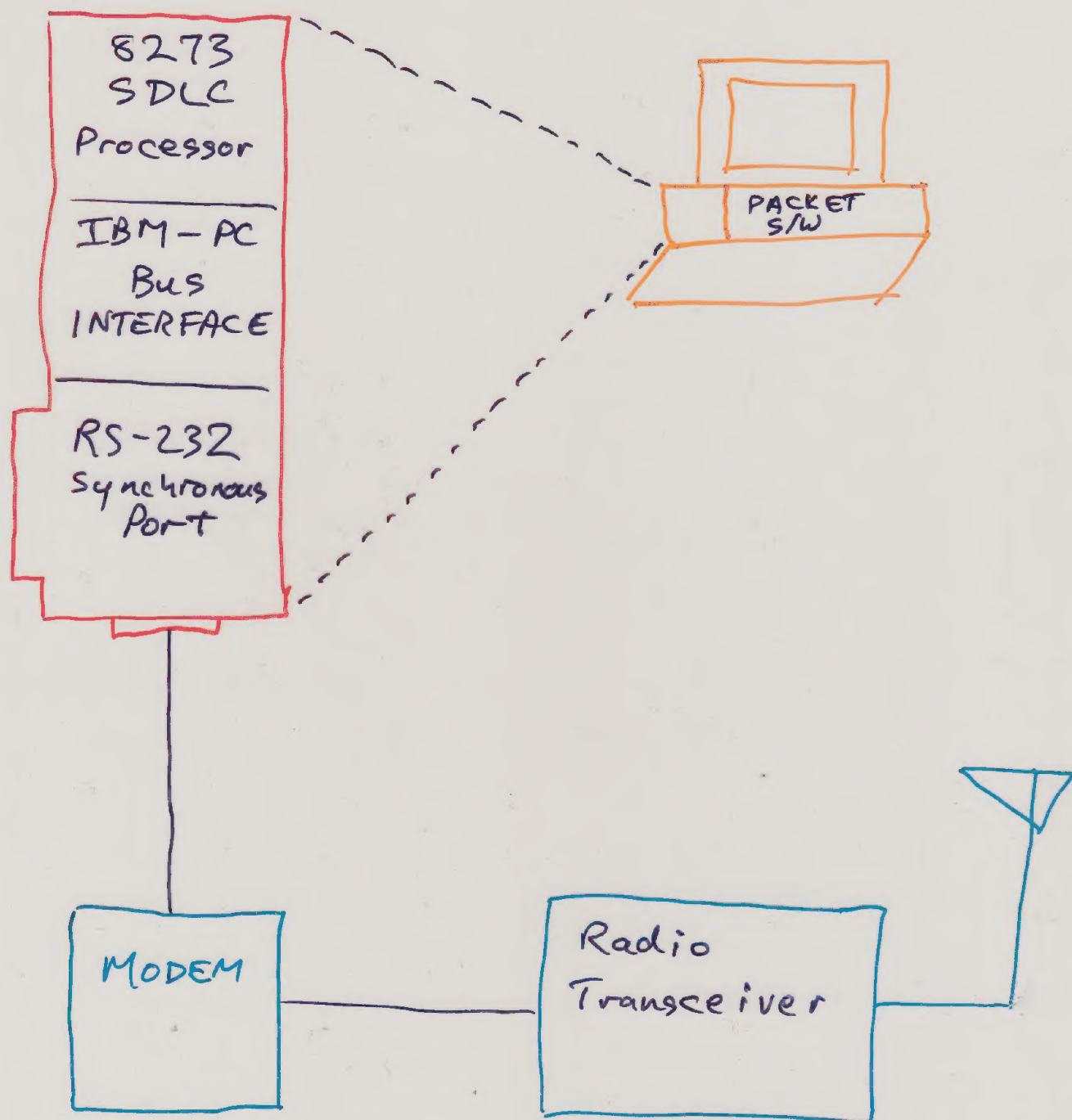
Terminal Node Controller



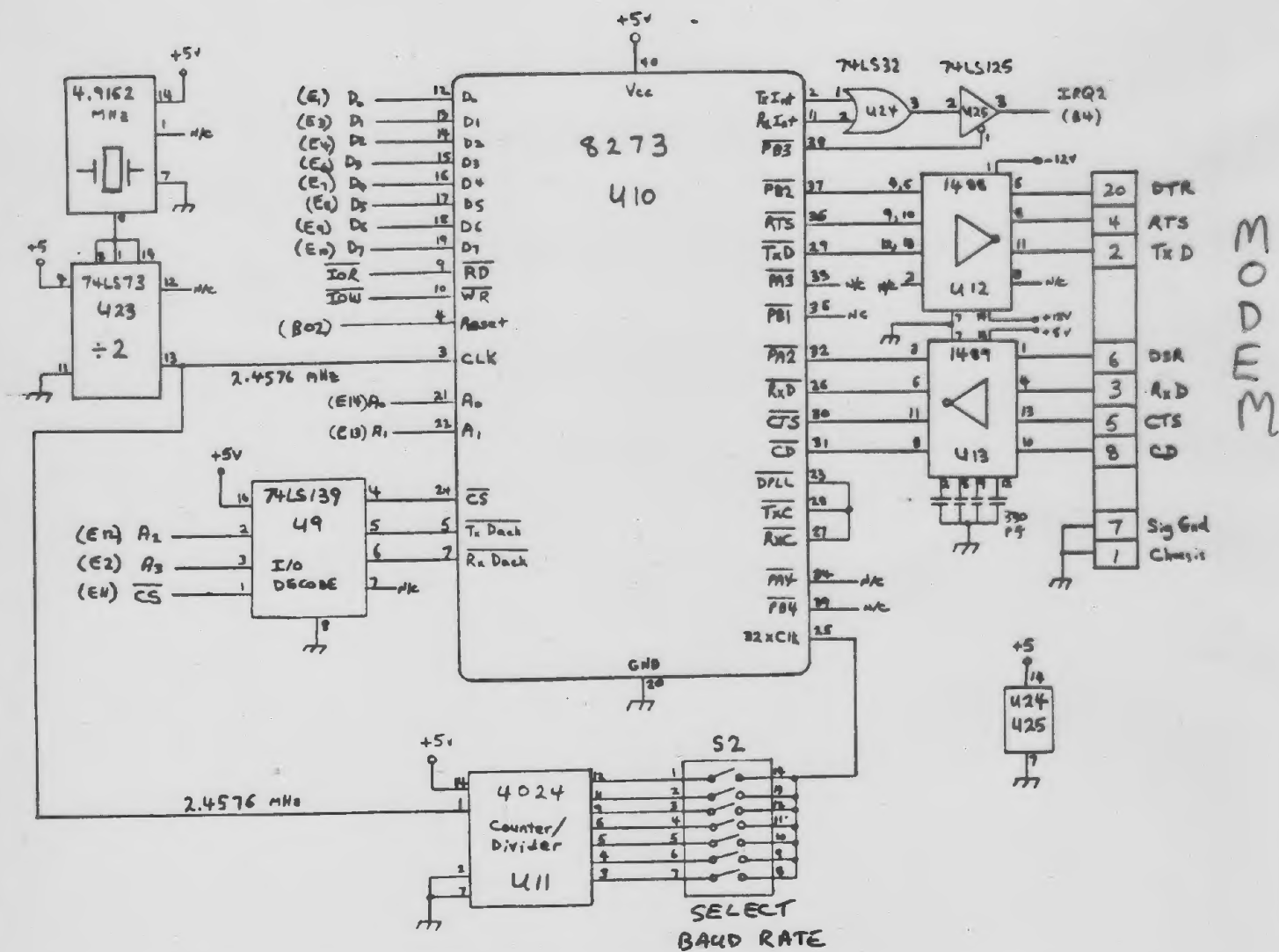
Traditional Packet Radio Station

PROTOTYPE
BOARD

PC



All Terminal Node Controller Functions
moved into the PC.



Status of Amateur Packet Radio

- Layers 1 and 2 (Physical and Link layers) implemented
- Layers 3, 4, and 5 (Network, Control, and Transport end-to-end) under development
- 1200 Baud links currently in use, higher speeds (4800, 9600 Baud) planned
- Future plans include world-wide networking, using amateur satellite links.